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1 An ultra low-power processor for sensor networks



Virantha Ekanayake, Clinton Kelly, IV, Rajit Manohar

December 2004 ACM SIGARCH Computer Architecture News, Volume 32 Issue 5

Publisher: ACM

Full text available: pdf(437.23 KB)

 Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 14, Downloads (12 Months): 224, Citation Count: 8

We present a novel processor architecture designed specifically for use in low-power wireless sensor-network nodes. Our sensor network asynchronous processor (SNAP/LE) is based on an asynchronous data-driven 16-bit RISC core with an extremely low-power ...

Keyw ords: asynchronous, event-driven, low-energy, picojoule computing, sensor network processor, sensor networks, wireless

2 Experiences creating three implementations of the repast agent modeling toolkit



Michael J. North, Nicholson T. Collier, Jerry R. Vos

January 2006 ACM Transactions on Modeling and Computer Simulation (TOMACS), Volume 16

Issue 1

Publisher: ACM

Full text available: pdf(2.66 MB)

 Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 17, Downloads (12 Months): 377, Citation Count: 8

Many agent-based modeling and simulation researchers and practitioners have called for varying levels of simulation interoperability ranging from shared software architectures to common agent communications languages. These calls have been at least partially ...

Keywords: Agent-based Modeling and Simulation, Java, Microsoft .NET, Python

3 Tools for composite web services: a short overview



Richard Hull, Jianwen Su

June 2005 ACM SIGMOD Record, Volume 34 Issue 2

Publisher: ACM

Full text available: pdf(449.55 KB)

 Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 47, Downloads (12 Months): 359, Citation Count: 3

Web services technologies enable flexible and dynamic interoperation of autonomous software

and information systems. A central challenge is the development of modeling techniques and tools for enabling the (semi-)automatic composition and analysis of ...

4 [Supply chain and distribution network: semiconductor supply network simulation](#)

Gary W. Godding, Hessam S. Sarjoughian, Karl G. Kempf

December 2003 WSC '03: Proceedings of the 35th conference on Winter simulation: driving innovation

Publisher: Winter Simulation Conference

Full text available:  [pdf\(575.92 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#)

Bibliometrics: Downloads (6 Weeks): 5, Downloads (12 Months): 48, Citation Count: 2

More efficient and effective control of supply networks is conservatively worth billions of dollars to the national and world economy. Developing improved control requires simulation of physical flows of materials involved and decision policies governing ...

5 [Synthesizing pose, unconscious movement, and gesture for mental behavior expression of interactive characters](#)

Atsushi Nakano, Kenta Shiiori, Junichi Hoshino

June 2006 ACE '06: Proceedings of the 2006 ACM SIGCHI international conference on Advances in computer entertainment technology

Publisher: ACM

Full text available:  [pdf\(660.26 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 6, Downloads (12 Months): 57, Citation Count: 0

Mental communication with characters is important for many entertainment applications. Human's mental statuses are complex, and mental behaviors typically consist of multiple components, such as poses and various unconscious movements. In this paper, ...

Keywords: interactive character, mental behavior

6 [A goal-oriented development tool to automate the incorporation of intelligent agents into interactive digital media applications](#)

Han Yu, Zhiqi Shen, Chunyan Miao

July 2008 Computers in Entertainment (CIE), Volume 6 Issue 2

Publisher: ACM

Full text available:  [pdf\(668.32 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 21, Downloads (12 Months): 20, Citation Count: 0

Recent developments in games and interactive storytelling applications have seen artificially intelligent computer controlled characters being included extensively. Non-human controlled characters are starting to play an increasingly significant role ...

Keywords: design tool, distributed system, goal-oriented, intelligent agent, multi-agent system

7 [Synthesis of underspecified composite e-services based on automated reasoning](#)

Daniela Berardi, Giuseppe De Giacomo, Maurizio Lenzerini, Massimo Mecella, Diego Calvanese

November 2004 ICSC '04: Proceedings of the 2nd international conference on Service oriented computing

Publisher: ACM

Full text available:  pdf(253.65 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 4, Downloads (12 Months): 61, Citation Count: 4

In this paper we study automatic composition synthesis of $\langle i \rangle e \langle /i \rangle$ -Services, based on automated reasoning. We represent the behavior of an $\langle i \rangle e \langle /i \rangle$ -Service in terms of a deterministic transition syst (or a finite state machine), in which ...

Keywords: intelligent services, service composition models and language, theoretical framework for service representation and compositions

8 [The building blocks for specifying communication behavior of complex objects: an activity-driven approach](#)

Ling Liu, Robert Meersman

June 1996 ACM Transactions on Database Systems (TODS), Volume 21 Issue 2

Publisher: ACM

Full text available:  pdf(599.84 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#), [review](#)

Bibliometrics: Downloads (6 Weeks): 1, Downloads (12 Months): 53, Citation Count: 6

Communication behavior represents dynamic evolution and cooperation of a group of objects in accomplishing a task. It is an important feature in object-oriented systems. We propose the concept of activity as a basic building block for declarative specification ...

Keywords: activity aggregation, activity patterns, activity specialization, communication behavior, first-order temporal logic, object-oriented databases, synchronization schemes

9 [An ultra low-power processor for sensor networks](#)

Virantha Ekanayake, Clinton Kelly, IV, Rajit Manohar

December 2004 ACM SIGOPS Operating Systems Review, Volume 38 Issue 5

Publisher: ACM

Full text available:  pdf(437.23 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 14, Downloads (12 Months): 224, Citation Count: 8

We present a novel processor architecture designed specifically for use in low-power wireless sensor-network nodes. Our sensor network asynchronous processor (SNAP/LE) is based on an asynchronous data-driven 16-bit RISC core with an extremely low-power ...


Keywords: asynchronous, event-driven, low-energy, picojoule computing, sensor network processor, sensor networks, wireless

10 [An ultra low-power processor for sensor networks](#)

Virantha Ekanayake, Clinton Kelly, IV, Rajit Manohar

October 2004 ASPLOS-XI: Proceedings of the 11th international conference on Architectural support for programming languages and operating systems

Publisher: ACM

Full text available:  pdf(437.23 KB)


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Bibliometrics: Downloads (6 Weeks): 14, Downloads (12 Months): 224, Citation Count: 8

We present a novel processor architecture designed specifically for use in low-power wireless sensor-network nodes. Our sensor network asynchronous processor (SNAP/LE) is based on an asynchronous data-driven 16-bit RISC core with an extremely low-power ...


Keywords: asynchronous, event-driven, low-energy, picojoule computing, sensor network processor, sensor networks, wireless

11 Relational agents: a model and implementation of building user trust

 Timothy Bickmore, Justine Cassell

March 2001 CHI '01: Proceedings of the SIGCHI conference on Human factors in computing systems

Publisher: ACM

Full text available:  pdf(366.85 KB) Additional Information: full citation, abstract, references, cited by, index terms

Bibliometrics: Downloads (6 Weeks): 17, Downloads (12 Months): 149, Citation Count: 28

Building trust with users is crucial in a wide range of applications, such as financial transactions, and some minimal degree of trust is required in all applications to even initiate and maintain an interaction with a user. Humans use a variety of relational ...

Keywords: embodied conversational agent, natural language, personality, small talk, social interface, trust

12 Verifying process models built using parameterized state machines

 Barbara Staudt Lerner

July 2004 I SSTA '04: Proceedings of the 2004 ACM SIGSOFT international symposium on Software testing and analysis

Publisher: ACM


Full text available:  pdf(245.05 KB) Additional Information: full citation, abstract, references, index terms

Bibliometrics: Downloads (6 Weeks): 6, Downloads (12 Months): 58, Citation Count: 1

Software process and work flow languages are increasingly used to define loosely-coupled systems of systems. These languages focus on coordination issues such as data flow and control flow among the subsystems and exception handling activities. The resulting ...


Keywords: LTSA, Little-JIL, SMC, finite state machine, software process, work flow

13 Impact for agents

 Tom Wagner, Les Gasser, Michael Luck

July 2005 AAMAS '05: Proceedings of the fourth international joint conference on Autonomous agents and multiagent systems


Publisher: ACM

Full text available:  pdf(356.07 KB) Additional Information: full citation, abstract, references, cited by

Bibliometrics: Downloads (6 Weeks): 0, Downloads (12 Months): 82, Citation Count: 2

Impact for agents. Most of the agent research community has been predicting greater impact for years and many of us have been working to help the process along. Yet the tremendous growth on the research front has not been met with a corresponding ...

14 An agent-based geosimulation multidisciplinary approach to support scenarios evaluation in dynamic virtual geographic environments

 Hedi Haddad, Bernard Moulin

April 2008 SpringSim '08: Proceedings of the 2008 Spring simulation multicongress

Publisher: ACM

Full text available:  pdf(318.81 KB) Additional Information: full citation, abstract, references

Bibliometrics: Downloads (6 Weeks): 2, Downloads (12 Months): 2, Citation Count: 0

In this paper we propose an agent-based geosimulation approach to support a "what if" analysis of COAs in virtual geographic environments. An innovative part of our approach is the use of the agent-based simulation (ABS) paradigm to support qualitative ...

Keywords: "What if" COA analysis, agent-based geosimulation, qualitative spatial reasoning

15 [Reconciling System Requirements and Runtime Behavior](#)

M. S. Feather, S. Fickas, A. Van Lamsweerde, C. Ponsard

April 1998 IWSSD '98: Proceedings of the 9th international workshop on Software specification and design

Publisher: IEEE Computer Society


Full text available:  pdf(56.61 KB)  [Publisher Site](#) Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#)

Bibliometrics: Downloads (6 Weeks): 7, Downloads (12 Months): 31, Citation Count: 19

This paper considers the problem of runtime system deviations from requirements specifications. Such deviations may arise from lack of anticipation of possible behaviors of environment agents at specification time, or from evolving conditions in this ...

Keywords: Self-adapting systems, requirements monitoring, goal-driven requirements engineering, inconsistency management, obstacles, deviation analysis, system customization.

16 [An ultra low-power processor for sensor networks](#)

 Virantha Ekanayake, Clinton Kelly, IV, Rajit Manohar
November 2004 ACM SIGPLAN Notices, Volume 39 Issue 11

Publisher: ACM

Full text available:  pdf(437.23 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 14, Downloads (12 Months): 224, Citation Count: 8

We present a novel processor architecture designed specifically for use in low-power wireless sensor-network nodes. Our sensor network asynchronous processor (SNAP/LE) is based on an asynchronous data-driven 16-bit RISC core with an extremely low-power ...

Keywords: asynchronous, event-driven, low-energy, picojoule computing, sensor network processor, sensor networks, wireless

17 [Realistic agent populations for large-scale virtual training environments](#)

 Art Pope, Peter Selfridge, John R. Surdu

April 2008 SpringSim '08: Proceedings of the 2008 Spring simulation multicongress

Publisher: ACM


Full text available:  pdf(144.88 KB) Additional Information: [full citation](#), [abstract](#), [references](#)

Bibliometrics: Downloads (6 Weeks): 2, Downloads (12 Months): 2, Citation Count: 0

This paper explores the problem of effectively simulating realistic populations of background agents in large-scale virtual environments for training and mission rehearsal. It explains why such populations are needed, and surveys the behaviors one would ...

Keywords: agent-based simulation, background population, crowd simulation, human behavior representation, human terrain

18 [Proceedings of the fifth international joint conference on Autonomous agents and multiagent systems](#)


 Hideyuki Nakashima, Michael Wellman, Gerhard Weiss, Peter Stone
May 2006 proceeding
Publisher: ACM

Additional Information: [full citation](#), [abstract](#)

Bibliometrics: Downloads (6 Weeks): n/a, Downloads (12 Months): n/a, Citation Count: 0

The spread of Internet connectivity and advancement of computer hardware increases the power of information technologies to perform practical services in many areas of our everyday life. Agent technologies play essential roles in the design of service-oriented ...

19 [Particle-based methodology for representing mobile ad-hoc networks](#)

 Carlos J. Martinez, Marisa López, Luis C. Estebanez
May 2006 InterSense '06: Proceedings of the first international conference on Integrated internet ad hoc and sensor networks
Publisher: ACM


Full text available:  [pdf\(149.89 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 3, Downloads (12 Months): 64, Citation Count: 0

We present a methodology based on physics laws and particles in order to represent, simulate, and architect advanced networking models. We introduce a mathematical formalism with its basic postulates seeing the messages signals and nodes as interacting/colliding ...

Keyw ords: ad-hoc networks, heterogeneous, methodology, model, particles, physics, tools, ubiquitous

20 [Information fusion for wireless sensor networks: Methods, models, and classifications](#)

 Eduardo F. Nakamura, Antonio A. F. Loureiro, Alejandro C. Frery
September 2007 ACM Computing Surveys (CSUR), Volume 39 Issue 3
Publisher: ACM

Full text available:  [pdf\(1.20 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 382, Downloads (12 Months): 3867, Citation Count: 1

Wireless sensor networks produce a large amount of data that needs to be processed, delivered, and assessed according to the application objectives. The way these data are manipulated by the sensor nodes is a fundamental issue. Information fusion arises ...

Keyw ords: Information fusion, architectures and models, data aggregation, data fusion, wireless sensor networks

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